

# ENERGY MANAGEMENT AND SUSTAINABILITY SOLUTIONS



In today's economic climate, organizations must prioritize their sustainability efforts. Sustainability initiatives must have both a positive environmental impact as well as drive new cost savings. Energy management sustainability solutions enable both of these objectives by using energy data analysis to increase efficiency and reduce operational costs. Typical energy management solutions can tell you that there is something wrong with the building, but not what to do about it. ICONICS' Fault Detection and Diagnostics technology uniquely pinpoints the exact location, and even the specific piece, of equipment that is malfunctioning or behaving inefficiently and offers a list of possible causes, ranked by probability, to reduce maintenance repair times. This helps customers **reduce energy costs, cut consumption, curtail carbon emissions and significantly streamline facilities maintenance.**

**ICONICS Energy AnalytiX<sup>®</sup>** provides energy data analysis to increase efficiency and reduce overall operational costs. It helps improve energy usage patterns, monitor energy reliability, and even forecast energy consumption.

**ICONICS Facility AnalytiX<sup>®</sup>** is a predictive building automation solution that assesses the probability of equipment faults and advises management and maintenance personnel of actions to prevent equipment failures or excessive energy use.



ICONICS Energy Sustainability solutions are applicable across industries and can scale from a single entity to a large enterprise or campus-wide installation.

## Typical Savings

- Reduce downtime by 20%
- Increase efficiency by 15%
- Reduce energy use by 10-25%
- Reduce CO<sub>2</sub> emissions by 10-20%

**Solutions in Action**

ICONICS AnalytiX<sup>®</sup> is central to the Energy-Smart Buildings Program currently being rolled out across Microsoft’s corporate campus. The extremely large campus supports over 50,000 people and is comprised of over 109 buildings, parking garages and other spaces totaling 15 million square feet with over 35,000 pieces of mechanical equipment. It is estimated that **the ICONICS solution will help Microsoft save 6 to 10 percent annually** on energy costs. Microsoft’s Chief Environmental Strategist, Rob Bernard, said, “Microsoft is now deploying the new Energy-Smart Buildings system across the Redmond campus. It will yield millions of dollars in savings each year, reduce the company’s carbon footprint and establish Microsoft as a leader in the emerging markets for IT-driven building systems.” Microsoft is looking at a ROI of under 18 months.

**Solution Benefits**

- **Save 6-10% off energy costs** through more efficient building energy management
- Predict and **reduce equipment downtime** through automated Fault Detection and Diagnostics technology
- Understand, improve, and optimize energy usage patterns to **take advantage of off-peak rates**
- Enable **LEED** (Leadership in Energy and Environmental Design) compliance
- Leverage existing skills and systems by integrating with **existing building control systems**
- Facilitate building operations **collaboration** through sophisticated visualization technology
- Improve overall **environmental quality** for occupants

The Pentagon/Department of Defense selected ICONICS’ Web-enabled, OPC-integrated HMI/SCADA suite. An OEM version provides the building control systems for a renovation project at the Pentagon in Washington, D.C. With over 6.5 million square feet under one roof, the Pentagon is the world’s largest office building complex.



In addition to the individual workstations for each operator, five 90-inch displays provide wall-to-wall monitoring of building controls systems for HVAC, Fire, Security, Lighting, IT/Telco Critical Monitoring, Water Systems and Hazardous Agent Monitoring. Should an event happen, an operator can direct any workstation display to any one of the monitors for collaborative analysis.

**About ICONICS**

ICONICS is a long-time Microsoft Gold Certified Partner and the **2012 Microsoft Sustainability Partner of the Year**. They are headquartered in Foxborough, Massachusetts, with corporate offices around the world. A broad network of channel partners enables ICONICS to service customers worldwide.

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